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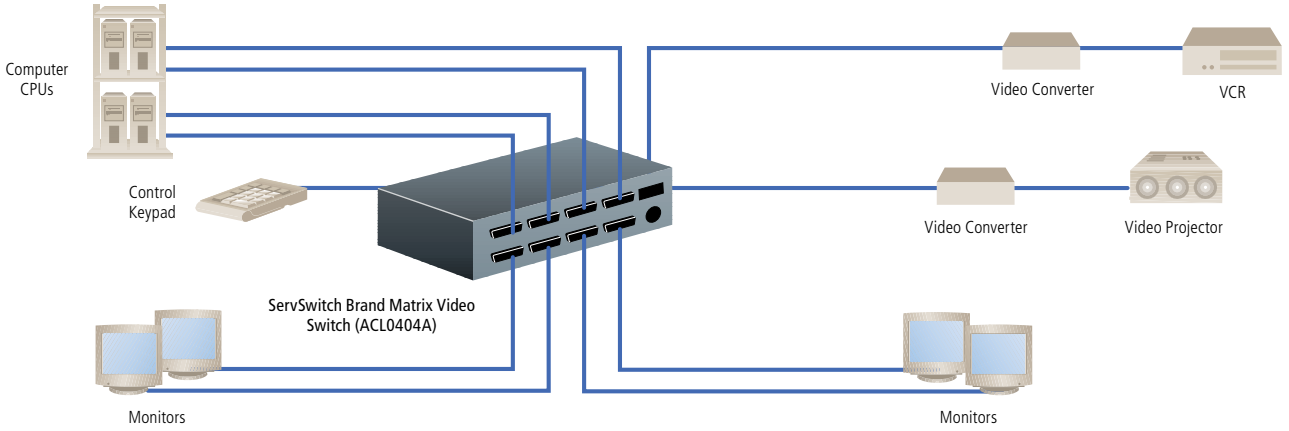
ServSwitch™ Brand Matrix Video Switches

Send your video where it needs to go at the touch of a button.

FEATURES

- 4 x 4 video switch.
- Enough bandwidth to handle 1600 x 1280 resolution at 85 Hz.
- Just press a button to switch any input to any output.
- Has universal power supply—can be used almost anywhere.
- Designed for VGA, but can support almost any kind of video with the right cabling.
- Can drive video as far as 150 ft. (45.7 m).
- Front-panel LEDs make it easy to figure out where video is going.

Direct any of your video output to different locations for display, recording, broadcasting—you name it!



OVERVIEW

If you have several sources of video that you'd like to display at different places at different times, here are a few things not to do:

1. Don't settle for static, expensive dedicated video feeds.
2. Don't swap video cables by hand.
3. Don't subject your video devices to ugly and potentially damaging mechanical video switching.
4. Don't pay for extra switching (keyboard, mouse, etc.) that you don't need.

What should you do? Consider ServSwitch™ Brand Matrix Video Switches. You can use them to electronically switch video signals from four source devices among video screens.

In the standard application, computer CPUs will be the sources and computer monitors will be the destinations. But with the proper cabling and signal conversion (and as long as the destination devices can handle it), almost any video device can be involved—TVs, VCRs, cameras, projectors, DVD players, etc.

This is because the switches can handle almost any kind of video synchronization: RGBHV (as used in VGA, SVGA, and other types of computer video), RGBS (as used in NTSC and PAL TV signals), and RGsB ("sync on green"). They have a vast amount of bandwidth—enough to carry video at resolutions up to 1600 x 1280 at refresh rates up to 85 Hz. All inputs and outputs are buffered, so you always get the sharpest possible images.

The 4 x 4 switch can drive signals up to 150 ft. (45.7 m).

ServSwitch Brand Matrix Video Switches can be controlled in either of two ways. For one, it can be controlled with a standard serial numeric keypad, powered by the Switch, that plugs into the Switch's rear panel. Press the keypad buttons in the sequence output–decimal point–input–Enter key to make a switch. For example, press [3][.][1] [Enter] to switch the input from CPU #1 to output to monitor #3. If you press zero for the input number, the output channel will be blanked (the Switch won't send it any video signal). If you press the asterisk key for the output number, the input channel will be broadcast to all outputs. LEDs show you which output channel is receiving which input.

The keypad's cable is 6 ft. (1.8 m) long, but you can use DB9 extension cable (not included) to extend your "roaming radius" to RS-232's maximum distance of 50 ft. (15 m). The switch includes one keypad.

The other way to control a switch is by attaching a PC or other serial device that can send the Switch the ASCII characters or hex codes equivalent to the keypad keypresses. In this way, switching can be automatically controlled for displays, demos, and so on.

Each switch has a universal power supply; with the proper input cord, you can plug it in just about anywhere in the world.

ACL0404A: top: front view; bottom: rear view

TECH SPECS

Cable Required — To attach a computer as a video source: Video-extension cable such as our EVNPS06-XXXX-MF
Compliance — CE; FCC Part 15 Subpart B Class A, IC Class/classe A
Standards — VGA, SVGA, XGA, or XGA-2 video
Interfaces — Video: VGA; Keypads: Proprietary serial
Supported Video Types — RGBHV (VGA, SVGA, XGA, or XGA-2), RGBS, or RGsB ("sync on green")
Resolution and Refresh Rate — Up to 1600 x 1280 noninterlaced at up to 85 Hz
Video Coupling — DC
Video Level — 0.7 volts peak-to-peak
Video Gain — 1-to-1 (buffered)
Maximum Distance — Up to 150 ft. (45.7 m) of total cable length from attached CPU/input device to attached monitor/output device;
User Controls — (1) Front-mounted rocker switch for power; Switching commands (ASCII "make" and "break" codes from PC or included serial keypad);
Indicators — (16) Front-mounted LEDs to show video connections;
Connectors — On Switch itself:
(8) HD15 female for video:
(4) to CPUs' video ports (or other sources),
(4) to monitors (or other destinations);
(1) DB9 male for serial;
(1) 5-pin DIN female for power;
On power-supply transformer: (1) IEC male inlet for power

Maximum Altitude — 10,000 ft. (3048 m)
Temperature Tolerance —
Operating: 32 to 122° F (0 to 50° C);
Storage: -40 to +185° F (-40 to +85° C)
Humidity Tolerance — Up to 95% noncondensing
Enclosure — Steel
MTBF — 300,000 hours (calculated estimate)
Power — From utility-power (mains) outlet, through included detachable output cord and external universal power supply:
Input: 100 to 250 VAC at 50 to 60 Hz (autosensing);
Output: +5 VDC at 1 A, +12 VDC at 0.5 A, and -12 VDC at 0.5 A;
Consumption: 5 VA (5 watts) maximum
Size — 2.3"H x 8.3"W x 5.3"D (5.8 x 21.1 x 13.5 cm)
Weight — Net: 7 lb. (3.2 kg):
Switch itself: 2.2 lb. (1 kg);
Keypad: 1 lb. (0.5 kg);
Power supply: 3 lb. (1.4 kg);

What's included

- ✦ The ServSwitch Brand Matrix Video Switch
- ✦ (1) 18-button serial keypad
- ✦ Its autosensing power supply
- ✦ Its manual

Call us about UPSes and AC-power surge protection; we'll help you determine the best equipment for your application.

CAUTION: If you use adapters or converters to attach non-VGA equipment, all destination devices must be capable of handling the video signals from all source devices. For example, driving high-end workstation video to a monitor whose maximum refresh rate is too low could result in oversyncing and damaging the monitor.

Item	Code
ServSwitch™ Brand Matrix Video Switch 4 x 4	**ACL0404A**

You might also need…

VGA Video-Extension Cable (HD15 M to HD15 F, Specify Length)	**EVNPS06-XXXX-MF**
Video to VGA Portable (Converts NTSC/PAL to VGA up to 1280 x 1024 at 60 Hz)	**AC328A-R3**
Universal Generic Video Adapter ([5] BNC M to HD15 F, Handles Any Sync Arrangement)	**EYRGBS4-0006**
DB9 Extension Cable (DB9 M to DB9 F, Specify Length)	**EDN12H-XXXX-MF**
DB9 RS-232 Data-Line Surge Protector	**SP361A-R2**